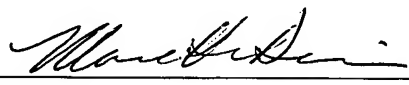


<b>TRANSMITTAL LETTER TO THE UNITED STATES</b>		<b>ATTORNEY'S DOCKET NUMBER</b> KPO-SUN-P1/SN-71/US
<b>DESIGNATED/ELECTED OFFICE (DO/EO/US)</b>		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>10/510972</b>
<b>CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		<b>PRIORITY DATE</b> 12 April 2002
<b>INTERNATIONAL APPLICATION NO.</b> PCT/JP03/04471	<b>INTERNATIONAL FILING DATE</b> 9 April 2003	
<b>TITLE OF INVENTION</b> PROCESS FOR PRODUCTION OF HYDROGEN AND CARBONYL COMPOUNDS BY REACTING SUB- OR SUPER-CRITICAL WATER WITH ALCOHOLS		
<b>APPLICANT(S) FOR DO/EO/US</b> Koichi NAKAHARA; Kenzo NAGAMI; Okitsugu KAJIMOTO; Kazuya KOBIRO		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> <li><input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li><input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li><input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li><input checked="" type="checkbox"/> The US has been elected (Article 31).</li> <li><input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) <ol style="list-style-type: none"> <li><input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li><input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li><input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li><input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. <ol style="list-style-type: none"> <li><input checked="" type="checkbox"/> is attached hereto.</li> <li><input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li><input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) <ol style="list-style-type: none"> <li><input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li><input type="checkbox"/> have been communicated by the International Bureau.</li> <li><input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li><input type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li><input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li><input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). <i>(unexecuted)</i></li> <li><input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT</li> </ol>		
<b>Items 11 to 20 below concern document(s) or information</b>		
<ol style="list-style-type: none"> <li><input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li><input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li><input type="checkbox"/> A preliminary amendment.</li> <li><input type="checkbox"/> An application Data Sheet under 37 CFR 1.76.</li> <li><input type="checkbox"/> A substitute specification.</li> <li><input checked="" type="checkbox"/> A power of attorney and/or change of address letter. <i>(attached to declaration)</i></li> <li><input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.</li> <li><input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</li> <li><input type="checkbox"/> A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).</li> <li><input checked="" type="checkbox"/> Other items or information: Form PCT/IB/332; Form PCT/IB/306; Form PCT/IB/304</li> </ol>		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.51(b)) <b>10/510972</b> to be assigned		INTERNATIONAL APPLICATION NO. <b>PCT/JP03/04471</b>		ATTORNEY'S DOCKET NUMBER <b>KPO-SUN-P1/SN-71/US</b>	
21. <input checked="" type="checkbox"/> The following fees are submitted:				<b>CALCULATIONS PTO USE ONLY</b>	
<b>BASIC NATIONAL FEE (37 CFR 1.492 (a)(1) - (5)) :</b>					
Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO . . . . .				<b>\$1110.00</b>	
International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO . . . . .				<b>\$950.00</b>	
International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO . . . . .				<b>\$790.00</b>	
International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) . . . . .				<b>\$750.00</b>	
International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) . . . . .				<b>\$100.00</b>	
<b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b>				<b>\$</b>	<b>\$950.00</b>
Surcharge of <b>\$130.00</b> for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				<b>\$</b>	
<b>CLAIMS</b>	<b>NUMBER FILED</b>	<b>NUMBER EXTRA</b>	<b>RATE</b>		
Total claims	<b>21 - 20 =</b>	<b>1</b>	<b>x \$18.00</b>	<b>\$</b>	<b>\$18.00</b>
Independent claims	<b>3 - 3 =</b>	<b>0</b>	<b>x \$88.00</b>	<b>\$</b>	<b>\$0.00</b>
Multiple Dependent Claims (if applicable)			<b>+ \$300</b>	<b>\$</b>	<b>\$300.00</b>
<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$</b>	<b>\$1,268.00</b>
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				<b>\$</b>	<b>\$0.00</b>
<b>SUBTOTAL =</b>				<b>\$</b>	<b>\$1,268.00</b>
Processing fee of <b>\$130.00</b> for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				<b>+</b>	<b>\$</b>
<b>TOTAL NATIONAL FEE =</b>				<b>\$</b>	<b>\$1,268.00</b>
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). <b>\$40.00</b> per				<b>+</b>	<b>\$</b>
<b>TOTAL FEES ENCLOSED =</b>				<b>\$</b>	<b>\$1,268.00</b>
				<b>Amount to be refunded:</b>	<b>\$</b>
				<b>Amount to be charged:</b>	<b>\$</b>
<p>a. <input type="checkbox"/> A check in the amount of _____ to cover the above fees is enclosed.</p> <p>b. <input checked="" type="checkbox"/> Please charge my Deposit Account <b>50-3195</b> in the amount <b>\$1,268.00</b> to cover the above fees.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account <b>50-3195</b>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p>					
<p><b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.</p>					
SEND ALL CORRESPONDENCE TO:					
<p>Manette Dennis, Esq. Ostrager Chong Flaherty &amp; Broitman, PC 250 Park Avenue, Suite 825 New York, New York 10177-0899 212-681-0600 ext 101 mdennis@ocfbllaw.com</p>					
				 SIGNATURE	
				<p><b>Manette Dennis</b> NAME</p>	
CUSTOMER NO. 44702				<p><b>30,623</b> REGISTRATION NUMBER</p>	

**CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)****10/510972**

Applicant(s): K. Nakahara et al.

KPO-SUN-P1/SN-71/US

Application No.  
to be assignedFiling Date  
October 11, 2004Examiner  
to be assignedCustomer No.  
44702Group Art Unit  
to be assigned

Invention: **PROCESS FOR PRODUCTION OF HYDROGEN AND CARBONYL COMPOUNDS BY REACTING SUB- OR SUPER-CRITICAL WATER WITH ALCOHOLS**

I hereby certify that the following correspondence:

**Transmittal Letter to the United States Designated/Elected Office Concerning a Filing Under 35 U.S.C. 371**

*(Identify type of correspondence)*

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

**October 11, 2004**  
*(Date)*

**Manette Dennis***(Typed or Printed Name of Person Mailing Correspondence)*
  
*(Signature of Person Mailing Correspondence)*
**EV485974964 US***("Express Mail" Mailing Label Number)***Note: Each paper must have its own certificate of mailing.**

10/510972

F05 Rec'd PCT/PTO LA OCT 2004

**CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)**

Applicant(s): K. Nakahara et al.

Docket No.  
KPO-SUN-P1/SN-71/USApplication No.  
to be assignedFiling Date  
October 11, 2004Examiner  
to be assignedCustomer No.  
44702Group Art Unit  
to be assigned

Invention: **PROCESS FOR PRODUCTION OF HYDROGEN AND CARBONYL COMPOUNDS BY REACTING SUB- OR SUPER-CRITICAL WATER WITH ALCOHOLS**

I hereby certify that the following correspondence:

Declaration re translation of application; Application including 21 pages of specification, 2 pages of claims, Abstract, 1 page of drawings, unexecuted Declaration (5 pages); Declaration re translation of application

*(Identify type of correspondence)*

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

October 11, 2004  
*(Date)*

Manette Dennis*(Typed or Printed Name of Person Mailing Correspondence)**(Signature of Person Mailing Correspondence)*EV485974964US*("Express Mail" Mailing Label Number)*

**Note: Each paper must have its own certificate of mailing.**

10/510972

## CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)

PTO Rec'd PCT/PTO 4-1 OCT-2004  
Docket No.

Applicant(s): K. Nakahara et al.

KPO-SUN-P1/SN-71/US

Application No. to be assigned	Filing Date October 11, 2004	Examiner to be assigned	Customer No. 44702	Group Art Unit to be assigned
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Invention: **PROCESS FOR PRODUCTION OF HYDROGEN AND CARBONYL COMPOUNDS BY REACTING SUB- OR SUPER-CRITICAL WATER WITH ALCOHOLS**

I hereby certify that the following correspondence:

Notification Concerning Submission of Transmittal of Priority Document -- Form PCT/IB/304

*(Identify type of correspondence)*

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

October 11, 2004

*(Date)*

Manette Dennis

*(Typed or Printed Name of Person Mailing Correspondence)*

  
*(Signature of Person Mailing Correspondence)*

EV485974964 tS

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10/510972

H&C PCT/PTD 1 OCT 2004  
Docket No.**CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)**

Applicant(s): K. Nakahara et al.

KPO-SUN-P1/SN-71/US

Application No. to be assigned	Filing Date October 11, 2004	Examiner to be assigned	Customer No. 44702	Group Art Unit to be assigned
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Invention: **PROCESS FOR PRODUCTION OF HYDROGEN AND CARBONYL COMPOUNDS BY REACTING SUB- OR SUPER-CRITICAL WATER WITH ALCOHOLS**

I hereby certify that the following correspondence:

Notification of the Recording of a Change--Form PCT/IB/306

*(Identify type of correspondence)*

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

October 11, 2004

*(Date)*

Manette Dennis

*(Typed or Printed Name of Person Mailing Correspondence)*



*(Signature of Person Mailing Correspondence)*

EV485974964 uS

*("Express Mail" Mailing Label Number)*

**Note: Each paper must have its own certificate of mailing.**

10/510972

**CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.1005)**

Rec'd PCT/PTO Docket # 1 OCT 2004

Applicant(s): K. Nakahara et al.

KPO-SUN-P1/SN-71/US

Application No.  
to be assignedFiling Date  
October 11, 2004Examiner  
to be assignedCustomer No.  
44702Group Art Unit  
to be assigned

Invention: **PROCESS FOR PRODUCTION OF HYDROGEN AND CARBONYL COMPOUNDS BY REACTING SUB- OR SUPER-CRITICAL WATER WITH ALCOHOLS**

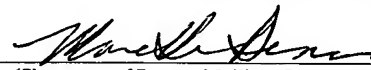
I hereby certify that the following correspondence:

Information Concerning Elected Offices Notified of their Election--Form PCT/IB/332

*(Identify type of correspondence)*

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

October 11, 2004  
*(Date)*

Manette Dennis*(Typed or Printed Name of Person Mailing Correspondence)**(Signature of Person Mailing Correspondence)*EV485974964 US*("Express Mail" Mailing Label Number)*

**Note: Each paper must have its own certificate of mailing.**

**CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)**

Applicant(s): K. Nakahara et al.

Docket No.

KPO-SUN-P1/SN-71/US

Application No.  
to be assigned

Filing Date  
October 11, 2004

Examiner  
to be assigned

Customer No.  
44702

Group Art Unit  
to be assigned

Invention: **PROCESS FOR PRODUCTION OF HYDROGEN AND CARBONYL COMPOUNDS BY REACTING SUB- OR SUPER-CRITICAL WATER WITH ALCOHOLS**

I hereby certify that the following correspondence:

International Publication No. WO/03/086963 A1 including International Search Report-- Form PCT/ISA/210

*(Identify type of correspondence)*

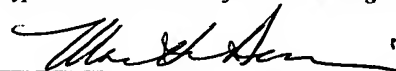
is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

October 11, 2004

*(Date)*

Manette Dennis

*(Typed or Printed Name of Person Mailing Correspondence)*



*(Signature of Person Mailing Correspondence)*

EV485974964 45

*("Express Mail" Mailing Label Number)*

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